

What is claimed is:

1. A method of aligning a media sheet moving along a media path, the method comprising the steps of:

determining at least one physical characteristic of the media sheet;

5 determining skew that will result as the media sheet moves through the media path based on the at least one physical characteristic;

moving the media sheet along a predetermined distance of the media path;

10 while the media sheet is in contact with first and second rolls spaced along the media path, adjusting a speed differential based on the at least one physical characteristic of the media sheet; and

moving the media sheet along the media path through the first and second rolls at the speed differential to remove the skew.

15 2. The method of claim 1, further comprising moving the second roller at a first speed when the media sheet is in contact with both the first roller and the second roller, and adjusting the second roller to a second speed different than the first speed once the media sheet has moved beyond contact with the first roller.

20 3. The method of claim 1, wherein the step of determining at least one physical characteristic comprises receiving information from an input.

4. The method of claim 3, further comprising displaying a prompt on a display requesting a user to input the at least one physical characteristic.

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5. The method of claim 3, further comprising receiving the at least one physical characteristic through a pc-based driver utility.

30 6. The method of claim 1, wherein the step of determining at least one physical characteristic comprises moving the media sheet through a sensor along the media path that determines the at least one physical characteristic.

7. The method of claim 1, wherein the step of determining at least one physical characteristic of the media sheet comprises determining a weight of the media sheet.

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8. The method of claim 1, wherein the step of determining at least one physical characteristic of the media sheet comprises determining a thickness of the media sheet.

10 9. The method of claim 1, wherein the step of determining the at least one physical characteristic of the media sheet comprises determining the texture of the media sheet.

15 10. The method of claim 1, further comprising applying the speed differential as the media sheet is moving through a single-contact roll and a multi-contact roll.

11. A method of aligning a media sheet moving along a media path, the method comprising the steps of:

20 determining at least one physical characteristic of the media sheet;
 determining an expected amount of misalignment of the media sheet from proper alignment at a predetermined point along the media path based on the at least one physical characteristic;
 storing the amount of misalignment in a controller;
 introducing the media sheet into the media path;
25 moving the media sheet along the media path;
 once the media sheet reaches the predetermined point, automatically moving the media sheet by the amount of misalignment.

12. A method of aligning a media sheet moving through a media path, the method comprising the steps of:

determining at least one physical characteristic of the media sheet;

5 determining a skew amount that will result as the media sheet moves through the media path based on the at least one physical characteristic;

moving the media sheet along a predetermined distance of the media path;

10 while the media sheet is in contact with a single-contact roll and a multi-contact roll, adjusting a speed differential based on the at least one physical characteristic of the media sheet; and

moving the media sheet along the media path through the single-contact roll and the multi-contact roll at the speed differential and removing the skew amount.

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13. The method of claim 12, comprising moving the media sheet through the multi-contact roll and then the single-contact roll.

14. The method of claim 12, comprising contacting the media sheet at two

20 contact points by the multi-contact roll.

15. A method of aligning a media sheet moving through a media path, the method comprising the steps of:

determining at least one physical characteristic of the media sheet;

5 determining a skew amount that will result as the media sheet moves through the media path based on the at least one physical characteristic;

moving the media sheet along a predetermined distance of the media path to be in simultaneous contact with a first roll and a second roll;

during the simultaneous contact, adjusting a first roll speed to a
10 predetermined percentage of a second roll speed, with the predetermined percentage based on the at least one physical characteristic and the skew amount; and

moving the media sheet along the media path by contact with the first roll and the second roll with the first roll and second roll rotating at different speeds.

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16. The method of claim 15, comprising removing the skew amount while the media sheet is still in the simultaneous contact with the first roll and the second roll.

20 17. The method of claim 15, further comprising after the media sheet moves beyond the first roll and while still in contact with the second roll, adjusting the second roll speed.

25 18. The method of claim 15, comprising the simultaneous contact occurring when the media sheet is in contact with a single-contact roll and a multi-contact roll.

19. A method of aligning a media sheet moving along a media path, the method comprising the steps of:

determining at least one physical characteristic of the media sheet;

5 determining an amount of skew resulting from moving the media sheet into a duplex path based on the at least one physical characteristic;

forming an image on a first side of the media sheet;

reversing a direction of the media sheet and moving the media sheet into the duplex path;

10 while the media sheet is in simultaneous contact between a first roll and a second roll, rotating the first roll at a first speed and rotating the second roll at a second speed with the difference between the first speed and the second speed based on the at least one physical characteristic of the media sheet; and

15 moving the media sheet along the duplex path while in contact with the first roll and the second roll and removing the amount of skew.

20. A method of aligning a media sheet moving along a media path, the method comprising the steps of:

determining at least one physical characteristic of the media sheet;

20 determining an amount of skew resulting from moving the media sheet into a duplex path based on the at least one physical characteristic;

forming an image on a first side of the media sheet;

reversing a direction of the media sheet and moving the media sheet along the duplex path;

25 while the media sheet is in simultaneous contact between a first multi-contact roll and a second single-contact roll, adjusting a first speed of the first multi-contact roll to be different than a second speed of the second single-contact roll; and

30 moving the media sheet along the duplex path while in contact with the first multi-contact roll rotating at the first speed and the second single-contact roll rotating at the second speed and removing the amount of skew.